

9/23/13

Warm up:

Susie is having a Halloween party with her friends. She is preparing goodie bags for each person. Each bag will contain 4 small candy bars, 2 spider rings, 1 set of vampire teeth, and 5 pieces of candy corn. If she is inviting 12 people to the party (12 goody bags), how many of each item will she need?

Write an equation to model the question, then simplify it.

$$12 \cdot (4c + 2s + 1T + 5N)$$
$$48c + 24s + 12T + 60N$$

48 CANDY BARS  
24 RINGS  
12 TEETH  
60 CANDY CORN

$$12 \begin{array}{|c|c|c|c|} \hline 4c & 2s & 1T & 5N \\ \hline 48c & 24s & 12T & 60N \\ \hline \end{array}$$

$$48c + 24s + 12T + 60N$$

## Section 1.7 - The Distributive Property & Combining Like Terms

Like Terms:

- SAME VARIABLE
- SAME EXPONENT

Simplify the following:

$$-5a - 2 + 3a - 4b - 12 + 6b - 2 + 1 + a - 1a$$

1. Separate:

2. Identify:

3. Group:

4. Simplify:

$\begin{array}{r} -5a \\ +3a \\ +1a \\ -1a \end{array}$	$\begin{array}{r} -4b \\ +6b \end{array}$	$\begin{array}{r} -2 \\ -12 \\ +1 \end{array}$
$-2a$	$+2b$	$-13$

1. DISTRIBUTE  
2. CLT

$$x - 3(x + 7) + 10$$

$$x - 3x - 21 + 10$$

$\begin{array}{r} 1x \\ -3x \end{array}$	$\begin{array}{r} -21 \\ +10 \end{array}$
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$$-2x - 11$$